

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331007964 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 10/02/2023

(54) Title of the invention : A system for Intentional and unintentional misbehavior detection in Unmanned Aerial Vehicles

(51) International classification :B64C0039020000, G08G0005000000, G05D0001000000, G06F0016290000, H04L0043500000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The present invention relates to a system for Intentional and unintentional misbehavior detection in Unmanned Aerial Vehicles. Unmanned aerial vehicles, UAVs, are what are known as FANET nodes in the research as a variety of approaches have been put out to assure safe and dependable inter-node communications (UAVs). These UAVs are typically identified as harmful due to inadvertent behaviour associated with their physical attributes, the transmission methods they use, or the network interface. To differentiate among purposeful and unintended UAV misbehaviour, a new context-aware trust-based technique has been designed. The major objective is to reduce the produced failure rate while keeping the necessary levels of safety. In addition to achieve complete context knowledge in the entire honesty assessment, it builds the trust within the UAVs and assesses the current situation in the context of UAV strength, moving pattern etc.

No. of Pages : 18 No. of Claims : 5